## [56] References Cited U.S. PATENT DOCUMENTS 8/1949 Hutchason ..... 6/1974 Spies ..... 2,477,875 ... 222/95 3,815,787 5,069,364 12/1991 McGill 222/326 9/1992 McGill .... 222/326 5,150,820 2/1994 Herold et al. .... .. 366/177 5,286,105 .... 166/307 6/1994 Jennings, Jr. ... 5,322,122 5,501,368 3/1996 Brandhorst et al. .... . 222/95 . FOREIGN PATENT DOCUMENTS 8/1987 United Kingdom .... 2186544 Primary Examiner-Philippe Derakshani Attorney, Agent, or Firm-Foley & Lardner **ABSTRACT**

For emptying a film tube 15 containing a flowable substance, the front end of the tube is provided with a ring 17 the peripheral portion 19 of which exceeds the inner diameter of a cartridge 1 which receives the tube 15. The ring 17 has a conical sealing surface 20 which cooperates with a sealing edge 12 formed inside the cap 2. In operation, the cylindrical rear portion 7 of the cap 2 is slid onto a front portion 4 of the cartridge 1, whereby the ring 17 provided on the tube 15 has its sealing surface 20 centered and aligned in the radial and axial directions to ensure proper engagement between the sealing edge 12 and the sealing surface 20.

5 Claims, 1 Drawing Sheet